

4.1

HW

p 221 - 222 1-11 17-19 21-26 32-34

- ① C Right ② E Equilateral ③ F Equiangular ④ A isosceles
 ⑤ B scalene ⑥ D obtuse

⑦ No the other 2 \angle s are acute & complementary

⑧ Isosceles, Right ⑨ Equilateral, Equiangular ⑩ Scalene
 Acute obtuse

⑪ $AB = \sqrt{(6-2)^2 + (3-3)^2} = 4$

$BC = \sqrt{(6-2)^2 + (3-7)^2} = \sqrt{32} = 4\sqrt{2}$
 $16 + 16$

Isosceles + Right

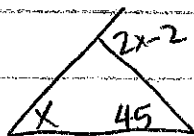
$\overline{AB} \perp \overline{AC}$?

$AC = \sqrt{(2-2)^2 + (3-7)^2} = 4$

$\overline{AB} \text{ m} = \frac{6-2}{3-3} = \text{undefined}$

$\overline{AC} \text{ m} = \frac{0}{0} = 0$

⑫



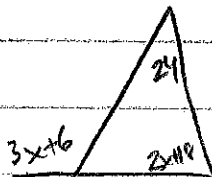
$2x-2 = x+45$

$x = 47$

$2(47)-2$

$94-2 = 92$

⑬



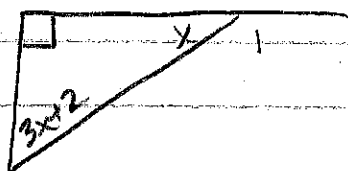
$3x+6 = 2x+18+24$

$x = 36$

$3(36)+6$

114°

⑭



$3x+2 + x = 90$

$4x = 88$

$x = 22$

$m\angle 1 = 90 + 3(22) + 2$
 $90 \quad 66$

$m\angle 1 = 158$

21. $ML1 = 50$

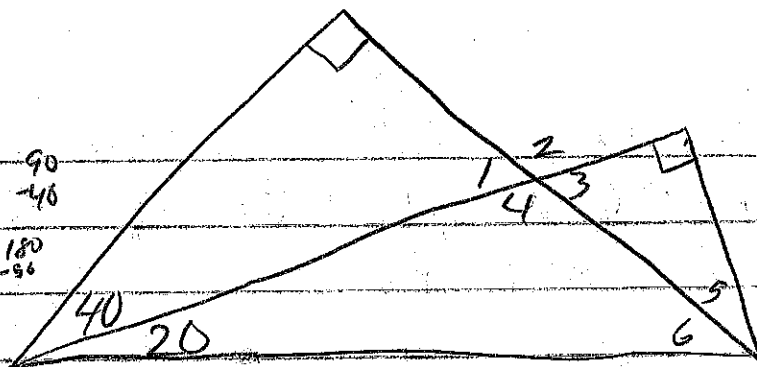
22. $ML2 = 130$

23. $ML3 = 50$

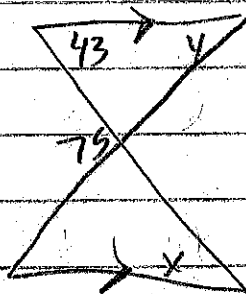
24. $ML4 = 130$

25. $ML5 = 40$ $90 - 50$

26. $ML6 = 30$ $50 - 20$

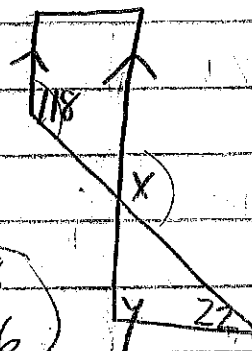


32.



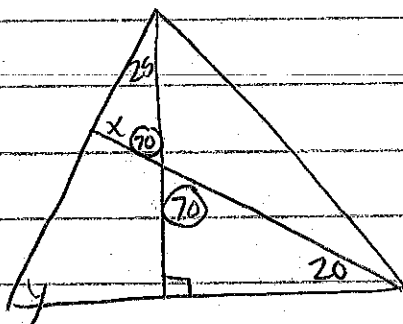
$$\begin{aligned} x &= 43 \\ y &= 32 \\ 75 \\ -43 \\ \hline 32 \end{aligned}$$

33.



$$\begin{aligned} x &= 118 \\ y &= 96 \\ 118 - 22 \end{aligned}$$

34.



$$x = y + 20$$

$$x + 70 + 25 = 180$$

$$95$$

$$x = 85$$

$$85 = y + 20$$

$$65 = y$$